NOTE ON A HOLOCENE DEPOSIT AT BOVENEY, BUCKINGHAMSHIRE.

By J. E. COOPER.

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THE Holocene deposits of the Thames Valley have received considerable attention, especially from Messrs. Kennard & Woodward. Full lists of fossil Mollusca from these beds have been published for Wallingford,¹ two separate localities near Staines,² and Clifton Hampden,³ besides several less complete hists for other places in this area.

Last year there was an excellent section in the north bank of the Thames at Boveney, Bucks, which appears to be worth notice. This exposure consisted of a thick bed of brickearth (alluvium), with a maximum depth of about 5 feet, resting upon a thin sandy bed some 2 inches in thickness, which was crowded with shells. The shell-bed was just above water when the river was low, and corresponded to a similar deposit at Staines. The fossils in the brickearth were chiefly land shells, and the specimens were scattered about in the clay like currants in a pudding. As usual *Hygromia hispida* was the commonest Helicoid, and *Helix nemoralis* was also abundant.

1. From this alluvium the following species were obtained :--

Vitrea cellaria (Müll.).	Jaminia muscorum (L.).
V. nitidula (Drap.).	Succinea putris (L.).
Pyramidula rotundata (Müll.).	S. elegans, Risso.
Hygromia hispida (L.).	Limnæa peregra (Müll.).
Vallonia excentrica, Sterki.	L. palustris (Müll.).
Helicigona lapicida (L.).	Planorbis umbilicatus, Müll.
H. arbustorum (L.).	P. Stræmi, Westd.
Helix nemoralis, L.	Bithynia tentaculata (L.).
H. hortensis, Müll.	Valvata piscinalis (Müll.).
Cochlicopa lubrica (Müll.).	Neritina fluviatilis (L.).

Planorbis Stræmi was only noticed quite at the base of this bed; it was probably derived from the sandy bed below.

2. The narrow sandy bed, characterized by the abundance of *P. Stræmi*, consisted chiefly of freshwater shells, with a few land species here and there. The list comprised—

Vitrca crystallina (Müll.).	Vallonia costa
V. nitidula (Drap.).	V. excentrica,
Zonitoides nitidus (Müll.).	Helicigona art
Punctum pygmæum (Drap.).	Helix nemoral
Euconulus fulvus (Müll.).	Cochlicopa lub
Pyramidula rupestris (Drap.).	Jaminia musco
P. rotundata (Müll.).	Vertigo pygmæ
Hygromia hispida (L.).	V. pusilla, Mü

Vallonia costata (Müll.). V. excentrica, Sterki. Helicigona arbustorum (L.). Helix nemoralis, L. Cochlicopa lubrica (Müll.). Iaminia muscorum (L.). Vertigo pygmæa (Drap.). V. pusilla, Müll.

¹ Proc. Malac. Soc., vol. viii, p. 93.

- ² Proc. Geol. Assoc., vol. xix, p. 252; Proc. Malac. Soc., vol. vii, p. 310.
- ³ Proc. Cotteswold Club, vol. xiv, p. 198.

COOPER: ON A HOLOCENE DEPOSIT AT BOVENEY.

Clausilia laminata (Mont.). P. contortus (L.). Succinea putris (L.). P. fontanus, Lightfoot. S. elegans, Risso. Physa fontinalis (L.). Bithynia tentaculata (L.). Carychium minimum, Müll. B. Leachi (Shepp.). Ancylus fluviatilis, Müll. Valvata piscinalis (Müll.). Acroloxus lacustris (L.). V. cristata (Müll.). Limnæa auricularia (L.). L. peregra (Müll.). Neritina fluviatilis (L.). L. palustris (Müll.) Sphærium corneum (L.). L. truncatula (Müll.). Pisidium amnicum (Müll.). L. stagnalis (L.). P. supinum, A. Sch. P. Henslowanum, Malm. Planorbis corneus (L.). P. albus, Müll. P. pulchellum, Jenyns. P. Stræmi, Westd. P. Casertanum, Poli. P. pusillum (Gmel.). P. crista (L.). P. carinatus, Müll. P. nitidum, Jenyns. P. obtusale, Pfr. P. umbilicatus, Müll. P. milium, Held. P. vortex (L.). P. subtruncatum, Malm. P. spirorbis (L.).

Pyramidula rupestris and Vertigo pusilla were the most interesting finds; the latter species still lives at Burnham Beeches, a few miles away.

Mr. B. B. Woodward, F.L.S., has kindly identified some of the *Pisidia* quoted above. I am also indebted to Mr.A.S. Kennard, F.G.S., for naming two immature forms of other shells.

319